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## President's Message

In my annual report this year, I'm inviting you to spend a day with us at Carleton

University, You'll see a university that is vibrant and active, and a community that is diverse and enthusiastic. Learning and research are both a type of discovery, and discovery is always exciting. I hope you'll get a sense of the energy and momentum we feel, as you look at a typical day at Carleton University.

You'll see a university that has made tough decisions, set clear goals, and is focused on achieving those goals. In the past three years, Carleton University has reviewed and assessed all of its academic and administrative operations, and made substantial changes to ensure that our academic programs are of the highest quality and that we operate as efficiently as possible. The response from students has been very clear - Carleton had the highest percentage increase in applications in Ontario last year, and our first-year enrolment is up by 12 percent - twice the system-wide increase. The quality of our student body has been steadily improving as well. Carleton's entrance average has increased dramatically in the last seven years, and we welcomed 600 more scholarship recipients this past fall.

Students are attracted by our national reputation for excellence in high technology and in public affairs and management, to our renewed B.A. program with its small first-year seminars, and to innovative programs like the Bachelor of Public Affairs and Policy Management offered through the new Arthur Kroeger College of Public Affairs. When they arrive here, our students find a warm, welcoming atmosphere that helps them realize their potential. They also find up-to-date facilities. Carleton's overwhelming success in Ontario's Access to Opportunities Program (ATOP) brought more than \$37 million from industry and government sources to the expansion of our high tech programs. We have also invested substantially in student computing facilities, and developed an IT plan to ensure the continued competitiveness of Carleton's infrastructure.

And all of this has been done in the most unfavourable climate in North America for post-secondary education. Ontario universities receive the lowest per student funding in Canada, and Ontario has experienced the greatest decrease in public funding in North America through the 1990s. With aging campuses, an increasing student body, and the "double cohort" looming, (when two years of Ontario high school students merge into one graduating class), Ontario universities are in a funding crisis – Carleton University among them. While we want to get the word out that a strong post-secondary system is needed to fuel Canada's productivity and competitiveness, we also want you to see that we have done all that we can to be innovative, creative, and efficient with the resources available.

I hope this look at some of the many activities and achievements underway at Carleton will help you to understand us better. Still, there's no substitute for seeing something for yourself, so if this quick glimpse of a "Day in the Life" at Carleton University has intrigued you, please accept another invitation - come and visit us on campus. We want you to get to know us.

PRESIDENT, CARLETON UNIVERSITY

## New Beginnings

CARLETON UNIVERSITY STARTS A NEW DAY, AND TOP STUDENTS

FROM ACROSS CANADA START A NEW ADVENTUTE AS THE INAUGURAL CLASS OF THE ARTHUR KROEGER COLLEGE OF PUBLIC AFFAIRS. THE COLLEGE IS HOME TO CARLETON'S NEW DEGREE IN PUBLIC AFFAIRS AND POLICY MANAGEMENT, DESIGNED TO PRODUCE CANADA'S NEXT GENERATION OF LEADERS AND DECISION—Makers. It's a prime example of Carleton University's active response

• • • •

WHICH INCLUDES PIONEETING OTHER NEW

IN HUMAN RIGHTS TO A B.ENG. IN COMMUNICATIONS

PROGRAMS RANGING FROM A B.A.

TO OUR CHANGING SOCIETY - A RESPONSE

ENGINEERING.

Tanisha Stratton and Rupert Allen head off to a class in the new Arthur Kroeger College of Public Affairs. With an interdisciplinary approach to analyzing the increasing complexity and impact of public policy, Kroeger College offers a unique opportunity to understand modern society.

08:27am



 $08:36\,\mathrm{AM}/\mathrm{Journalism}$  professor LIONEL LUMB uses a new digital editing suite while students master their television skills. Students in the nationally recognized undergraduate and graduate journalism programs get extensive hands-on training while producing daily and weekly radio, television, print, and on-line news.



 $09:09_{\mathrm{AM}/\mathrm{Fourth-year}}$  engineering students buckle down to their assignments in one of the University's electronics labs.



 $09:\!26 \mathrm{AM}/\operatorname{Carleton} \text{ students were part of an international}$ news story when they helped excavate the site of the oldest church ever discovered, last spring in Jordan. DR. MARY-LOUISE MUSSELL of Carleton's College of the Humanities was Field Director on the dig that discovered the 1,700-year-old church. Temperatures were routinely over 40 degrees Celsius, making an early start to the day's work essential.

## Current and Connected

STUDENTS, PROFESSORS, AND RESEARCHERS ALL

NEED access to the best, most up-to-date facilities. Carleton raised more than \$37 million from industry and government sources through the province's access to opportunities program (atop) to expand carleton university's high tech programs. New labs, new equipment, new professors, expansion of co-op programs, and over \$16 million worth

OF THE LATEST SOFTWARE ENSURE

**RELATIONSHIPS WITH CANADA'S** 

THAT OUR STUDENTS HAVE EVERY ADVANTAGE. AND OUR CLOSE

HIGH TECH LEADERS KEEP OUR PROGRAMS AND RESEARCH

CURRENT - AND CONNECTED.

Carleton believes strongly in giving students access to the best possible instructors, facilities, software, and laboratories. Here, electronics professor Garry Tarr and Ph.D. student Neric Fong examine a photomask used to make advanced silicon microchips in Carleton's Microelectronics Fabrication Facility.

09:41am



 $10:14\,\mathrm{AM/Dean}$  of Engineering and Design SAMY MAHMOUD (left) meets with BEN GIANNI, Director of the School of Architecture (right), and DARRYL BOYCE, Carleton's Director of Physical Plant, to review plans for the three-storey addition to the Minto Centre for Advanced Studies in Engineering, made possible by the success of Carleton's ATOP campaign.



10:39 AM/Nature provides an excellent laboratory for students to gain first-hand experience in their area of study. Earth sciences professor FRED MICHEL takes his students to the Arctic to collect and study ice core samples used to analyze long-term climatic change and the stability of ice-rich permafrost.



10:53 AM/Back on campus, the atmosphere is much warmer, thanks to services such as Information Carleton. Carleton University is well-known for its caring and friendly environment.

# **Building Partnerships**

WHEN BUSINESSES AND INSTITUTIONS ARE LOOKING

FOR A PARTNER IN RESEARCH, LEARNING, AND DISCOVERY, THEY Choose carleton university. CIDA chose carleton to develop and manage over \$9 Million of projects in Russia and Cuba. Texas instruments chose Carleton university as the site for its first canadian elite digital signal processing lab. NSERC chose carleton to direct the research component of the p.e.i.

confederation bridge project. and community colleges are partnering with carleton

UNIVERSITY TO HELP QUALIFIED COLLEGE STU

COLLEGE STUDENTS EARN A UNIVERSITY DEGREE.

Partnerships with institutions ranging from the National Research Council to the National Gallery give our students the hands-on experience and insight they want and employers require. Art history students Ellen Cunningham and Alex de la Reta study part of an exhibit curated by Cunningham at the Carleton University Art Gallery.

11:15<sub>AM</sub>



11:49 AM/Carleton University is managing several CIDA-funded projects in Cuba. They range from the M.A. program in economics taught by Carleton faculty members at the University of Havana, to research conducted by Carleton's biology department to improve sugar cane production.

12:28 PM/Carleton University's picturesque campus is bounded by the Rideau River on one side, and the Rideau Canal on the other. Three of Carleton's Maintenance Services staff work to help keep the campus beautiful.



02:12PM/Civil engineering professor DAVID LAU uses an advanced data storage system for the information being collected around the clock by the thousands of sensors built into the Confederation Bridge that links P.E.I. to the mainland.

At the Top

THE ACADEMIC QUALITY OF CARLETON'S STUDENT BODY HAS NEVER BEEN

BETTER. OVER 600 MORE SChOlarships were awarded this year, with well over one-third of the entering class receiving academic awards. Top students can participate in carleton's expanding co-op program, with CO-OP options now available in 23 degree programs. Carleton's longer, flexible work terms range from four to 16 months, so students

CAN MAKE A REAL CONTRIBUTION.

AT CARLETON UNIVERSITY IS NOW

research is also expanding – research funding the highest in our history – over \$27 million.

Biology/philosophy student Alex
Wong is scanning a DNA gel to
discern genetic markers for a unique
insect population. From the use of
MRI technology to aid early cancer
detection to expanding our understanding of how the brain functions, Carleton
University researchers in the expanding
field of life sciences are helping us to
understand how the body and mind work,
and new ways to help when they don't.



02:57 PM/ARTHUR KROEGER, Chancellor of Carleton University and the former Deputy Minister of six federal departments (right), cuts the ribbon at the official opening of the new Arthur Kroeger College of Public Affairs, along with members of the College's advisory group and Carleton President RICHARD VAN LOON (second from right).



 $03:\!31 \, \text{PM/JENNIFER YOUNG is a second-year aerospace}$ engineering student at Carleton University, and winner of the 1999 C.D. Howe Memorial Award as the top female aerospace student in Canada.



 $04\!:\!08\,\mathrm{PM}/\mathrm{Psychology}$  professor HYMIE ANISMAN is working to unlock the connection between stress, body chemistry, and brain function. Anisman has been awarded over \$438,000 in funding from the Medical Research Council for his research on "Behavioral and Neurochemical Stress Responses: Early-Life Events and Genetic Factors."

## Research Works

RESEARCH AT CARLETON DOESN'T STOP AT 5:00 PM. OUR

researchers attract teams that reach across the country and around the world,

SPANNING SEVERAL TIME ZONES. THROUGH CARLETON INTERNATIONAL, THE UNIVERSITY HAS ESTABLISHED

ACADEMIC LINKAGES AND EXCHANGE AGREEMENTS WITH INSTITUTIONS AND GOVERNMENTS REPRESENTING

33 COUNTIES. THIS EXCHANGE OF STUDENTS, PROFESSORS, AND IDEAS BETWEEN CARLETON AND

OTHER UNIVERSITIES PROVIDES A TRUE INTERNATIONAL PETSPECTIVE, AND KEEPS CARLETON

GLOBAL VILLAGE.

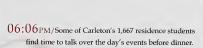
AN ACTIVE PARTNER IN THE

Piotr Dutkiewicz and Katrina Murray are heading up a research project examining the role of women in the changing Russian labour market. The Canadian International Development Agency (CIDA) has awarded over \$5 million for this project and a related one to help Russia prepare to join the World Trade Organization.

05:33PM



05:45 PM/The St. Patrick's Resource Centre carries hundreds of newspapers, magazines, and periodicals from around the world - an invaluable resource to journalism and communication students.





07:11 PM/DR. DAVID MILLER of the chemistry department is trying to discover how naturally occurring fungi in white spruce trees can be used as a built-in insecticide to limit spruce budworm damage - a project that has received \$250,000 in funding from JD Irving Ltd. and the Industrial Research Assistance Program (IRAP).

## Innovations in Learning

LEARNING CONTINUES INTO THE EVENING AS

MADE THE NEEDS OF PART-TIME AND MATURE STUDENTS A PRIORITY WITH A WIDE RANGE OF EVENING CLASSES, COURSES OFFERED ON INSTRUCTIONal television, and remotely on tape.

NOW WITH THE EXPANDING USE OF THE Internet to enrich and deliver courses, time and

PLACE ARE BECOMING EVEN LESS of AN OBSTACLE TO learning.

Although she is just in second year,
Luanne Winchiu worked
for the Department of Electronics
last summer on a co-op project to build
specialized equipment for Carleton's
computer chip fabrication lab. This
kind of early exposure to specialized
equipment and research activities is one
of the ways in which Carleton University
enhances undergraduate education.

08:19pm



 $08:28\,\mathrm{PM}/\mathrm{The}$  Carleton University Library is participating with other Canadian academic libraries in a national electronic journal site licensing project. Combined with the Library's current electronic resources, the national program will form the nucleus of a new digital library.



 $08:32 \, \text{PM/Professor}$  EILEEN SAUNDERS, Director of the Arthur Kroeger College of Public Affairs, reviews some questions with students in a seminar group.



 $08:59\,\mathrm{PM}/\,\mathrm{The}$  Community Economic Development Technical Assistance Program (CEDTAP), funded through Carleton's Centre for the Study of Training, Investment and Economic Restructuring (CSTIER), supports local projects like this community development corporation in the Penetanguishene region.



- **Financial Report**
- Teaching and Learning
  - Research at Carleton
  - Building our Future
- University Governance

## Contents

Book B: The Year in Review



## Financial Report

#### BOARD APPROVES NEW PLANNING PARAMETERS

Three years ago, Carleton University approved a multiyear budget framework for repaying the University's \$30 million deficit. The financial objectives set out in December, 1996 were to reach an annual operating break-even budget in the 1998/99 fiscal year and eliminate the cumulative deficit no later than the 2006/07 fiscal year. In November, 1998, the Board of Governors modified this plan, recognizing that meeting the targets within these timelines would require generating surpluses of more than \$4 million each year. The new planning parameters call for a \$525,000 surplus in 1999/2000 and a minimum surplus of \$1 million in each year until the deficit is eliminated.

#### OPERATING RESULT 1998/99

In September, 1999, the Board of Governors received the Financial Report for the year ended April 30, 1999. The Report showed that while the University had prepared for a balanced budget, a \$1.6 million surplus was realized on the \$146 million income. The surplus was due primarily to the government funds for the Access to Opportunities Program (ATOP) being received earlier than expected. As a result, the cumulative operating deficit (excluding provisions for vacation pay) at April 30, 1999 was \$28 million, compared to an original projection of \$29.6 million. The ancillary operations, collectively, had a year-end surplus of \$300,000, and an accumulated deficit of \$6.2 million.

#### LOOKING AHEAD

The 1999/2000 operating budget provides for a \$525,000 surplus on the year, and includes tuition fee increases which will generate approximately \$4.5 million in new fee revenues. Consistent with the commitment made to students last year, funds from tuition increases are being designated to improve the quality of academic programs and provide better facilities and services for students. Strategic resource allocations include student aid, scholarships, library acquisitions, student computing laboratories, and faculty renewal.

## Teaching and Learning

#### INNOVATIONS IN TEACHING

Carleton psychology professor Tim Pychyl represents the highest standard of university teaching. This year alone, Pychyl won both a prestigious OCUFA Teaching Award, presented annually by the Ontario Confederation of University Faculty Associations, and a 3M Teaching Award – Canada's highest university teaching honour. Pychyl joins the ranks of Carleton's other 3M award recipients bringing the University's total to five in the last five years.

Pychyl is a pioneer in the introduction of computer and communications technologies into the teaching curriculum. He will be putting this expertise to work as the recently appointed Associate Dean of Students, where he will examine the application of technology to research and instruction, including how new technology can be used to reach students in different ways.

Carleton University is committed to staying on the leading edge of technological innovation in education, and examples of how the University is successfully embracing technology are everywhere. Encouraged by the response to his "virtual" museum project, earth sciences professor Tim Patterson has introduced an on-line course, taught entirely on the Internet. Professor Lois Frankel makes use of User Interface Design, Form and Colour, and other computer applications to teach industrial design. Carleton has invested in "smart classrooms" where the latest technology lets professors use PowerPoint, the Web or other resources to enrich the learning environment. There are individual projects in most departments, and Carleton's Teaching, Learning and Technology Roundtable works to promote the use of technology to enhance instruction on a campus-wide basis.

Carleton University is working to increase society's understanding and mastery of technology as well. The Faculty of Science now offers programs in computational sciences, to address the critical need for scientists who can use advanced technology to expand the boundaries of scientific research.

#### ACADEMIC EXCELLENCE

Several years ago, Carleton University embarked on an ambitious program to raise its overall admissions averages and bring them into line with the provincial norm. The University combined this policy with the introduction of innovative new programs such as communications engineering, Kroeger College and a revitalized B.A. program, and an overall commitment to academic and research excellence. The result has been a dramatic change in the composition and quality of Carleton's student body.

Over a third of the University's 1999 entering class received academic awards, with the total number up 600 from the previous year. Not only did Carleton University lead the province this year in the percentage increase in applicants, it received over 4,000 first-year confirmations. This represents a 12 percent increase over last year, and well over twice the average increase in Ontario, according to figures from the Ontario Universities' Application Centre.

The engineering, business, and journalism programs all had their largest first-year classes ever and the new Arthur Kroeger College of Public Affairs exceeded its enrolment target.

Carleton President Richard Van Loon is excited about the quality and quantity of new students this year. "I am very proud to say that this year's firstyear class is the best and brightest," says Van Loon. "Obviously the community is getting the message that this is the new Carleton."



A group of Carleton University's Chancellor's Scholarship recipients

#### TEACHING AND PROFESSIONAL ACHIEVEMENT AWARDS

#### Teaching Achievement Awards 1999-2000

Christopher Brown, Political Science Daniel E. Patterson, Geography and Environmental Studies Donald Westwood, Architecture James S. Wright, Chemistry

### **CUSA Teaching Excellence Awards 1998-99**

Victor Aitken, Systems Engineering Donald Beecher, English Aleksandra Bennett, History Robert Burk, Chemistry Roger Herz-Fischler, Mathematics Margaret McCully, Biology John McMunagle, Law George Pollard, Sociologu Robert Riordan, Business James Wright, Chemistry

### **GSA Teaching Award 1998-99**

Michel Nakhla, Electronics

#### Professional Achievement Awards

### Lecturer/Instructor 1998-99

Chantal Dion, French Mark Lanthier, Computer Science Daniel E. Patterson, Geography and Environmental Studies

### Professional Librarians 1999-2000

Alison Hall, Library Anita Hui, Library

## Research at Carleton

#### MAKING A DIFFERENCE

The research conducted at our universities is critically important to the success and prosperity of Canada in the next millennium. Carleton University recognizes this and has made enhancing its research enterprise one of its strategic goals for 1999-2000. Increasing external research funding is a priority, even though it is already at its highest point ever-\$27 million.

"We take tremendous pride in the research being done by our faculty and students, and in the productive partnerships that they develop," says Dr. John ApSimon, Carleton's Vice-President (Research and External).
"Our external partners recognize that Carleton is a leader when it comes to pushing the boundaries of knowledge."

Carleton University's research enterprise is extremely diverse. Taking full advantage of its location in Canada's government and high tech capital, Carleton has built an international reputation for research in public affairs and management, international affairs, science, and engineering. But the scope of the research being done at Carleton is much broader, reflecting both new societal priorities and growing areas of strength at the University. Here are just a few examples:

- In the field of life sciences, including neuroscience and medical engineering, Carleton researchers are working on early breast cancer detection techniques, artificial heart components, and new treatments for Alzheimer's and epilepsy.
- Researchers in chemistry and engineering are expanding our understanding of the physical properties of polymers
  and metals. This work in advanced materials research will help develop the next generation of high tech and health
  products.
- Wireless and fibre optic technologies hold the key to breakthroughs in communications products and services.
   Carleton University's Faculty of Engineering and Design is continuing its tradition of leading microelectronics and systems research in these rapidly expanding areas.
- The world's scientists have come together to crack the mystery of one of the most basic and little-understood particles
  in the universe neutrinos. Researchers in Carleton's physics department are playing a vital role in Canada's two
  largest high energy physics projects the Sudbury Neutrino Observatory (SNO), and TRIUMF, the pre-eminent
  physics research institution.
- The Department of Psychology has several researchers examining childhood issues such as shyness, bullying, literacy
  skills, and learning. Added to Carleton's partnership with Algonquin College's Early Childhood Education program,
  these research activities will help parents and teachers help children.

- · Researchers in the School for Studies in Art and Culture, which includes art history, film studies, and music, are keeping Canadian culture alive and well-documented through projects like the Encyclopedia of Popular Music of the World, and the Historical Anthology of Canadian Music.
- With one in three Canadian jobs dependent on trade and the WTO talks underway, Carleton's Centre for Trade Policy and Law (CTPL) is busier than ever. As well as studying the ever-changing international trade situation, the CTPL is managing a large CIDA-funded project in Russia, and expanding its partnerships with international organizations concerned with trade issues.
- · Carleton University researchers in several disciplines are working to help the environment. From "smart" enzymes that eat toxic waste to the use of aerial photography to analyze the impact of mining - Carleton faculty members are making a difference. And with academic programs that focus on the environment offered through engineering, science, and geography, Carleton is not only researching this crucial topic, it is training the next generation of researchers as well.

Research at Carleton University is contributing to Canadian competitiveness and productivity. Our commitment to technology development and commercialization has resulted in patents, licences, and partnerships that are integral to the success of Canadian products. Carleton University is also a strong supporter of new businesses. Several local (and now international) success stories have their roots at Carleton, because they were founded here or were started by former faculty and students.

#### RESEARCH AWARDS

### Research Achievement Awards 1999-2000

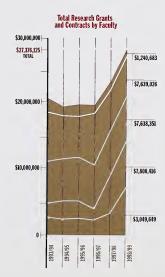
Robert Stainton, Philosophy Dominique Marshall, History Christopher Burn, Geography and Environmental Studies Michel Nakhla, Electronics Jonathan Beddoes, Mechanical and Aerospace Engineering Margaret Ogilvie, Law Susan Phillips, Public Administration Evangelos Kranakis, Computer Science James S. Wright, Chemistry Mark Forbes, Biology

### Marston LaFrance Research Fellow 1999-2000

Brian Little, Psychology

### **Davidson Dunton Research Lecturer 1998**

Jag M. Humar, Civil and Environmental Engineering



## Building our Future

#### ALUMNI SERVICES: A NETWORK OF SUPPORT

Although Carleton University is a relatively young university, it boasts a committed network of 80,000 alumni worldwide. Carleton alumni have involved themselves closely in the life of the University since it was founded in the early 1940s. During the past decade, graduates have served as mentors, members of the President's Advisory Councils, on campaign steering committees and as volunteer leaders of the University's alumni association.

An ambitious Web-based initiative – Putting Alumni Talent and Resources On-line (PATRON) – has been launched this year by alumni with the aim of involving even more people in the life of the institution. Graduates interested in volunteering their time and talent are encouraged to sign up as regular "PATRONs" in the Carleton Café, the University's new interactive Web site for alumni.

www.carleton.ca/alumni

The strength and reputation of the University is supported by a committed alumni association. Carleton takes pride in the leadership so often demonstrated by graduates who are willing to share their experience and knowledge with other alumni, students or members of the University community. Their loyalty has helped Carleton to establish traditions and venture into the future with innovation and imagination.



Past presidents of the Carleton Iniversity Alumni Association, representing five decades of volunteer leadership, gathered on campus at the President's Reception in October for Homecoming '99.

#### THE CAPITAL CAMPAIGN

Launched in the fall of 1996, Carleton's five-year Capital Campaign is the most ambitious and already the most successful fundraising campaign in the University's history. Thanks to the generosity of alumni, Canadian corporations, faculty and staff, students, and friends of Carleton, a total of \$70 million in gifts and pledges has been generated as of September, 1999.

Supporters have demonstrated quite decisively that they believe in Carleton's redefined strategic direction. Private contributions to the Capital Campaign - both large and small - matter. They have made a lasting impact on the University by enabling Carleton to fulfill its important academic priorities, to enhance its student aid endowment by more than \$20 million, and to enrich the educational experience for all of Carleton's students. Most importantly, this support is a strong endorsement of the contributions Carleton University is making to the next generation.

A phenomenal influx of more than \$24 million in private sector donations of cash, equipment, and software under the Ontario government's Access to Opportunities Program (ATOP) this year has helped Carleton's Capital Campaign surpass its original \$50-million goal in advance of the target date. While the University has reached a significant milestone, Carleton will continue its fundraising efforts until the year 2001 to successfully complete several remaining high priority projects so Carleton can move with confidence into the next century.

### Remaining Capital Campaign projects include endowment funds for:

The College of the Humanities The Arthur Kroeger College of Public Affairs The School of Journalism and Communication Chair in Business and Financial Journalism Chair in Medical Physics Program Enhancements for Kroeger College Scholarship Endowment



Carleton University President RICHARD VAN LOON, (right), with GEORGE ANDERSON, BA/69, President and Chief Executive Officer of the Insurance Council of Canada, and Chair of the Capital Campaign Steering Committee for Carleton's Arthur Kroeger College of Public Affairs.

## University Governance

#### Officers of the University

Arthur Kroeger
Chamellor
Richard J. Van Loon
President and Vice-Chamellor
G. Stuart Adam
Vice-President (Academic) and Registrar
John ApSimon
Vice-President (Research and External)
Duncan R. Watt
Vice-President (Finance and Administration)
Susan Gottheil
Sussistant Vice-President (Enrolment Management)
William D. Jones
Dem., Eactily of Arts and Social Sciences

Allan M. Maslove
Dean, Faculty of Public Affairs and Management
Peter J.S. Watson
Dean, Faculty of Science
Samy Malmoud
Dear, Faculty of Engineering and Design
Roger C. Blockley
Dean, Faculty of Fordutate Studies
and Research
Leonard Librande
Dean of Students
Martin Foss
University Librarian

#### Board of Governors (1999-2000)

Robert Laughton Chair Allan Lumsden Vice-Chair Greg Andonian Joe Belfontaine Louise Bergeron-de Villiers Colin Betts Margaret Bloodworth Scott Bowman Adam Chapnick Martha Clark Ross Donaldson David Dunn Linda Duxbury Roger Greenberg Andrew Haydon Arthur Kroeger Chancellor

Richard Martin Jean McCloskey Barbara McInnes Shirley Mills Judith Moses Gail Mutton Jacques Shore Claudine Simson James Taggart Richard Van Loon President Nancy Adamson Nancy Adamson

Nazeer Ladhani

Michael Makin

Jocelyn Mallett

Randal Marlin

Gail Larose

Frank Ling

#### Senate (as of July 1, 1999) Elective Faculty Seats

John C. Armtage
J. Andrew Brook
Michael Dorland
Marvin Glass
Deborah Long
L.T.R. McDonald
Shirley Mills
Michel Nakhla
John Oommen
Susan Phillips
Joseph Ramisch
Howard M. Schwartz
Boguslaw Wozniak

#### Elective Faculty Seats (terms coding fune 30, 2001)

Greg Andonian

Bryan Gillingham Stephen Godfrey Roland Jeffreys Mark Langer Sonya Lipsett-Rivera Colleen Lundy Michael Mac Neil Dominique Rosse Nicholas Rowe John Shepherd Tom Smy Choon-Lai Tan

#### **Elective Faculty Seats**

the menuine, (Jan. 16. 2004)
Paul Attallah
(Secretary, Public Affairs and Management
Faculty Board)
George Carmody
(Secretary, Science Faculty Board)
Bruce Elliott
(Secretary, Arts and Social Sciences
Faculty Board)
Rafik Goubran
Vinod Kumar
Kim Matheson
Brian Mortimer

## Elective Student Seats (terms ending June 30, 2000)

Carole Anders (Graduate Studies and Research) Michael Caspi DeAnn Foreman (Arts and Social Sciences) Philip Goodfellow (Architecture/Industrial Design) Nadia Hanna (Graduate Studies and Research) Sameer Ietha Fatima Khan (Engineering) Sean Maguire (Public Affairs and Management) Sean Andrew McFee (Computer Science) (Public Affairs and Management)

### Ex Officio Members of Senate

Stuart Adam
Vice-President (Research and External)
John ApSimon
Vice-President (Research and External)
Soha Al-Haddad
President, Graduate Students' Association
Joe Belfontaine
President (Carleton University Students'
Association)
Roger Blockley
Dean, Faculty of Graduate Studies and Research
Brian Burns
Director, School of Industrial Design
Aviva Freedman
Acting Doan, Faculty of Arts and Social Sciences

Ben Gianni
Director, School of Architecture
Evangelos Kranakis
Director, School of Computer Science
Arthur Kroeger
Chancellor

Leonard Librande
Dean of Students
Samy Mahmoud
Dean, Faculty of Engineering and Design
Allan Maslove
Dean, Faculty of Public Affairs and Management
Richard Van Loon
President

President
Peter Watson
Dean, Faculty of Science
Duncan Watt
Vice-President (Finance and Administration)

### **Board of Governors Representatives**

Andrew Haydon Gail Larose Michael Makin Gail Mutton

### Special Appointees

Roger Bird Academic Colleague Chong Chan Clerk of Senate Brian Ford Alumni Representative Martin Foss University Librarian



